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2	BRS	L2	1624	716/5.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/04/15 14:51
3	BRS	L3	144	716/5.ccls. and 703/14.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/04/15 15:02
4	BRS	L4	967	703/14.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/04/15 15:02
5	BRS	L5	10	(bayesian) and (hybrid same (Monte adj Carlo)) and (machine same learning)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	2006/04/15 15:04

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1 Generative modeling for continuous non-linearly embedded visual inference
Cristian Sminchisescu, Allan Jepson
July 2004 **Proceedings of the twenty-first international conference on Machine learning ICML '04**
Publisher: ACM Press
Full text available: pdf(600.99 KB) Additional Information: full citation, abstract, references

Many difficult visual perception problems, like 3D human motion estimation, can be formulated in terms of inference using complex generative models, defined over high-dimensional state spaces. Despite progress, optimizing such models is difficult because prior knowledge cannot be flexibly integrated in order to reshape an initially designed representation space. Nonlinearities, inherent sparsity of high-dimensional training sets, and lack of global continuity makes dimensionality reduction chall ...

2 Introduction to Bayesian learning
Aaron Hertzmann
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press
Full text available: pdf(899.54 KB) Additional Information: full citation, abstract

Sophisticated computer graphics applications require complex models of appearance, motion, natural phenomena, and even artistic style. Such models are often difficult or impossible to design by hand. Recent research demonstrates that, instead, we can "learn" a dynamical and/or appearance model from captured data, and then synthesize realistic new data from the model. For example, we can capture the motions of a human actor and then generate new motions as they might be performed by that actor. B ...

3 Bayesian approach to sensor-based context awareness
Panu Korpipää, Miika Koskinen, Johannes Peltola, Satu-Marja Mäkelä, Tapio Seppänen
July 2003 **Personal and Ubiquitous Computing**, Volume 7 Issue 2
Publisher: Springer-Verlag
Full text available: pdf(933.60 KB) Additional Information: full citation, abstract, index terms

AbstractThe usability of a mobile device and services can be enhanced by context awareness. The aim of this experiment was to expand the set of generally recognizable constituents of context concerning personal mobile device usage. Naive Bayesian networks were applied to classify the contexts of a mobile device user in her normal daily activities. The distinguishing feature of this experiment in comparison to earlier context

recognition research is the use of a naive Bayes framework, and an exte ...

Keywords: Audio context, Bayesian networks, Context awareness, Context recognition, Mobile computing, Sensor

4 Bayesian grammar induction for language modeling

Stanley F. Chen

June 1995 **Proceedings of the 33rd annual meeting on Association for Computational Linguistics**

Publisher: Association for Computational Linguistics

Full text available: pdf(654.11 KB) Publisher Site

Additional Information: full citation, abstract, references, citings

We describe a corpus-based induction algorithm for probabilistic context-free grammars. The algorithm employs a greedy heuristic search within a Bayesian framework, and a post-pass using the Inside-Outside algorithm. We compare the performance of our algorithm to *n*-gram models and the Inside-Outside algorithm in three language modeling tasks. In two of the tasks, the training data is generated by a probabilistic context-free grammar and in both tasks our algorithm outperforms the other te ...

5 Text classification: A refinement approach to handling model misfit in text categorization

Haoran Wu, Tong Heng Phang, Bing Liu, Xiaoli Li

July 2002 **Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining**

Publisher: ACM Press

Full text available: pdf(170.65 KB) Additional Information: full citation, abstract, references, citings, index terms

Text categorization or classification is the automated assigning of text documents to pre-defined classes based on their contents. This problem has been studied in information retrieval, machine learning and data mining. So far, many effective techniques have been proposed. However, most techniques are based on some underlying models and/or assumptions. When the data fits the model well, the classification accuracy will be high. However, when the data does not fit the model well, the classificat ...

Keywords: Rocchio algorithm, naïve Bayesian classifier, text categorization

6 A simple approach to building ensembles of Naive Bayesian classifiers for word sense disambiguation

Ted Pedersen

April 2000 **Proceedings of the first conference on North American chapter of the Association for Computational Linguistics**

Publisher: Morgan Kaufmann Publishers Inc.

Full text available: pdf(677.21 KB) Additional Information: full citation, abstract, references, citings

This paper presents a corpus-based approach to word sense disambiguation that builds an ensemble of Naive Bayesian classifiers, each of which is based on lexical features that represent co-occurring words in varying sized windows of context. Despite the simplicity of this approach, empirical results disambiguating the widely studied nouns *line* and *interest* show that such an ensemble achieves accuracy rivaling the best previously published results.

7 Recognition section: Recognition of two-person interactions using a hierarchical

Bayesian network
Sangho Park, J. K. Aggarwal
November 2003 **First ACM SIGMM international workshop on Video surveillance**
Publisher: ACM Press
Full text available: pdf(643.17 KB) Additional Information: full citation, abstract, references, index terms

Recognizing human interactions is a challenging task due to the multiple body parts of interacting persons and the concomitant occlusions. This paper presents a method for the recognition of two-person interactions using a hierarchical Bayesian network (BN). The poses of simultaneously tracked body parts are estimated at the low level of the BN, and the overall body pose is estimated at the high level of the BN. The evolution of the poses of the multiple body parts are processed by a dynamic Bay ...

Keywords: Bayesian network, event recognition, hierarchy, human interaction, motion, scene understanding, surveillance

8 Research track paper: A Bayesian network classifier with inverse tree structure for voxelwise magnetic resonance image analysis
Rong Chen, Edward H. Herskovits
August 2005 **Proceeding of the eleventh ACM SIGKDD international conference on Knowledge discovery in data mining KDD '05**
Publisher: ACM Press
Full text available: pdf(284.43 KB) Additional Information: full citation, abstract, references, index terms

We propose a *B*ayesian-*n*etwork *c*lassifier with *i*nverse-*t*ree structure (BNCIT) for joint classification and variable selection. The problem domain of voxelwise magnetic-resonance image analysis often involves millions of variables but only dozens of samples. Judicious variable selection may render classification tractable, avoid over-fitting, and improve classifier performance. BNCIT embeds the variable-selection process within the classifier-training process, wh ...

Keywords: Bayesian network, Markov blanket, classifier, magnetic resonance image

9 Model Averaging for Prediction with Discrete Bayesian Networks
Denver Dash, Gregory F. Cooper
December 2004 **The Journal of Machine Learning Research**, Volume 5
Publisher: MIT Press
Full text available: pdf(267.17 KB) Additional Information: full citation, abstract

In this paper we consider the problem of performing Bayesian model-averaging over a class of discrete Bayesian network structures consistent with a partial ordering and with bounded in-degree *k*. We show that for *N* nodes this class contains in the worst-case at least <img align=middle src=dash04a-omega.jpeg alt="omega eq"> distinct network structures, and yet model averaging over these structures can be performed using <img align=middle src=dash04a-bigo.jpeg alt="bigo eq"&g ...

10 Context-specific Bayesian clustering for gene expression data
Yoseph Barash, Nir Friedman
April 2001 **Proceedings of the fifth annual international conference on Computational biology**
Publisher: ACM Press
Full text available: pdf(233.32 KB) Additional Information: full citation, abstract, references, citings, index terms

The recent growth in genomic data and measurement of genome-wide expression

patterns allows to examine gene regulation by transcription factors using computational tools. In this work, we present a class of mathematical models that help in understanding the connections between transcription factors and functional classes of genes based on genetic and genomic data. These models represent the joint distribution of transcription factor binding sites and of expression levels of a gene in a single ...

11 PAC-Bayesian model averaging

David A. McAllester

July 1999 **Proceedings of the twelfth annual conference on Computational learning theory**

Publisher: ACM Press

Full text available: pdf(744.38 KB) Additional Information: full citation, references, citings, index terms

12 Explaining away ambiguity: learning verb selectional preference with Bayesian networks

Massimiliano Ciaramita, Mark Johnson

July 2000 **Proceedings of the 18th conference on Computational linguistics - Volume 1**

Publisher: Association for Computational Linguistics

Full text available: pdf(608.54 KB) Additional Information: full citation, abstract, references

This paper presents a Bayesian model for unsupervised learning of verb selectional preferences. For each verb the model creates a Bayesian network whose architecture is determined by the lexical hicrarchy of Wordnet and whose parameters are estimated from a list of verb-object pairs found from a corpus. "Explaining away", a well-known property of Bayesian networks, helps the model deal in a natural fashion with word sense ambiguity in the training data. On a word sense disambiguation test our mo ...

13 Some PAC-Bayesian theorems

David A. McAllester

July 1998 **Proceedings of the eleventh annual conference on Computational learning theory**

Publisher: ACM Press

Full text available: pdf(624.84 KB) Additional Information: full citation, references, citings, index terms

14 Content 4: image analysis and retrieval: Coevolutionary feature synthesized EM algorithm for image retrieval

Rui Li, Bir Bhanu, Anlei Dong

November 2005 **Proceedings of the 13th annual ACM international conference on Multimedia MULTIMEDIA '05**

Publisher: ACM Press

Full text available: pdf(709.14 KB) Additional Information: full citation, abstract, references, index terms

As a commonly used unsupervised learning algorithm in *Content-Based Image Retrieval* (CBIR), *Expectation-Maximization* (EM) algorithm has several limitations, especially in high dimensional feature spaces where the data are limited and the computational cost varies exponentially with the number of feature dimensions. Moreover, the convergence is guaranteed only at a local maximum. In this paper, we propose a unified framework of a novel learning approach, namely *Coevolutionary Fea ...*

Keywords: *coevolutionary feature synthesis, content-based image retrieval, expectation maximization algorithm, genetic programming, semi-supervised learning*

15 A PAC analysis of a Bayesian estimator

John Shawe-Taylor, Robert C. Williamson

July 1997 **Proceedings of the tenth annual conference on Computational learning theory**

Publisher: ACM Press

Full text available: pdf(1.25 MB) Additional Information: full citation, references, citings, index terms

16 Filtering: Bayesian online classifiers for text classification and filtering

Kian Ming Adam Chai, Hai Leong Chieu, Hwee Tou Ng

August 2002 **Proceedings of the 25th annual international ACM SIGIR conference on Research and development in information retrieval**

Publisher: ACM Press

Full text available: pdf(236.06 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper explores the use of Bayesian online classifiers to classify text documents. Empirical results indicate that these classifiers are comparable with the best text classification systems. Furthermore, the online approach offers the advantage of continuous learning in the batch-adaptive text filtering task.

Keywords: bayesian, machine learning, online, text classification, text filtering

17 The Bayesian backfitting relevance vector machine

Aaron D'Souza, Sethu Vijayakumar, Stefan Schaal

July 2004 **Proceedings of the twenty-first international conference on Machine learning ICML '04**

Publisher: ACM Press

Full text available: pdf(343.49 KB) Additional Information: full citation, abstract, references

Traditional non-parametric statistical learning techniques are often computationally attractive, but lack the same generalization and model selection abilities as state-of-the-art Bayesian algorithms which, however, are usually computationally prohibitive. This paper makes several important contributions that allow Bayesian learning to scale to more complex, real-world learning scenarios. Firstly, we show that *backfitting* --- a traditional non-parametric, yet highly efficient regression t ...

18 Content-based filtering & collaborative filtering: Using bayesian priors to combine classifiers for adaptive filtering

Yi Zhang

July 2004 **Proceedings of the 27th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '04**

Publisher: ACM Press

Full text available: pdf(179.68 KB) Additional Information: full citation, abstract, references, index terms

An adaptive information filtering system monitors a document stream to identify the documents that match information needs specified by user profiles. As the system filters, it also refines its knowledge about the user's information needs based on long-term observations of the document stream and periodic feedback(training data) from the user. Low variance profile learning algorithms, such as Rocchio, work well at the early stage of filtering when the system has very few training data. Low bias ...

Keywords: bias variance, information filtering, logistic regression

19 Learning Bayesian network classifiers by maximizing conditional likelihood

Daniel Grossman, Pedro Domingos

July 2004 **Proceedings of the twenty-first international conference on Machine learning ICML '04**

Publisher: ACM Press

Full text available: pdf(187.23 KB) Additional Information: full citation, abstract, references

Bayesian networks are a powerful probabilistic representation, and their use for classification has received considerable attention. However, they tend to perform poorly when learned in the standard way. This is attributable to a mismatch between the objective function used (likelihood or a function thereof) and the goal of classification (maximizing accuracy or conditional likelihood). Unfortunately, the computational cost of optimizing structure and parameters for conditional likelihood is pro ...

20 Modeling dependencies in protein-DNA binding sites

Yoseph Barash, Gal Elidan, Nir Friedman, Tommy Kaplan

April 2003 **Proceedings of the seventh annual international conference on Research in computational molecular biology RECOMB '03**

Publisher: ACM Press

Full text available: pdf(411.94 KB) Additional Information: full citation, abstract, references, citings, index terms

The availability of whole genome sequences and high-throughput genomic assays opens the door for *in silico* analysis of transcription regulation. This includes methods for discovering and characterizing the binding sites of DNA-binding proteins, such as transcription factors. A common representation of transcription factor binding sites is a *position specific score matrix* (PSSM). This representation makes the strong assumption that binding site positions are independent of each othe ...

Keywords: DNA sequence motifs, bayesian networks, factors binding sites, transcription

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